# **BookletChart**<sup>TM</sup>

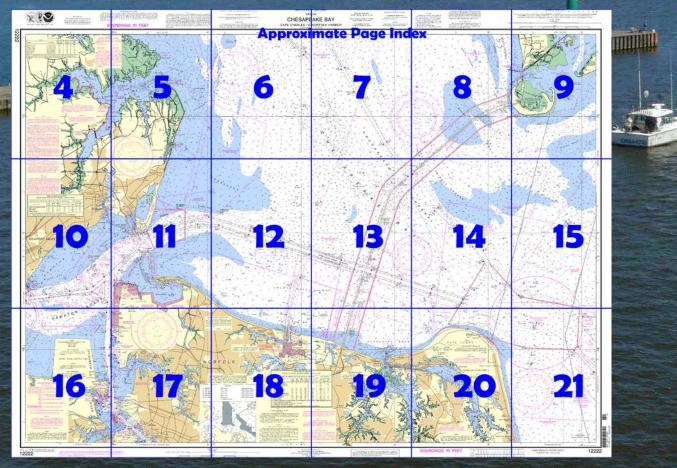
# NORA TIMENT OF COUNTRY OF COUNTRY

# Chesapeake Bay – Cape Charles to Norfolk Harbor

A reduced-scale NOAA nautical chart for small boaters When possible, use the full-size NOAA chart for navigation.



- Complete, reduced-scale nautical chart
- Print at home for free
- Convenient size
- Up-to-date with Notices to Mariners
- Compiled by NOAA's Office of Coast Survey, the nation's chartmaker



### Published by the National Oceanic and Atmospheric Administration National Ocean Service Office of Coast Survey

<u>www.NauticalCharts.NOAA.gov</u> 888-990-NOAA

### What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

### What is a BookletChart<sup>™</sup>?

This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at <a href="http://www.NauticalCharts.NOAA.gov">http://www.NauticalCharts.NOAA.gov</a>.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

### **Notice to Mariners Correction Status**

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.

For latest Coast Pilot excerpt visit the Office of Coast Survey website at <a href="http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=122">http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=122</a> <a href="http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=122">http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=122</a> <a href="http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=122">http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=122</a> <a href="http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=122">http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=122</a> <a href="http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=122">http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=122</a> <a href="http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=122">http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=122</a> <a href="http://www.nauticalcharts.noaa.gov/nsd/searchbycharts.noaa.gov/nsd/searchbychart.php?chart=122">http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=122</a> <a href="http://www.nauticalcharts.noaa.gov/nsd/searchbycharts.noaa



(Selected Excerpts from Coast Pilot)
Cape Henry Light (36°55.6'N., 76°00.4'W.),
164 feet above the water, is shown from an octagonal, pyramidal tower, upper and lower half of each face alternately black and white, on the beach near the turn of the Chesapeake Bay Bridge extends from Cape Charles to a point 6 miles westward of Cape Henry. Channel buoys, lights, daybeacons and fog signals mark the openings at Chesapeake and Thimble Shoal Channels. At night the floodlighted tunnel houses are

more prominent than the lights marking the channels. The current velocity is 1.0 knot on the flood and 1.5 knots on the ebb in Chesapeake Bay Entrance.

Thimble Shoal Channel is a **Regulated Navigation Area** and draft limitations apply. A vessel drawing less than 25 feet may not enter the channel, unless the vessel is crossing the channel.

**Lynnhaven Roads** is used as an anchorage. The dumping ground in the western part has shoals and obstructions with depths as little as 11 feet; elsewhere depths are 20 to 28 feet.

There are two small craft openings in the Chesapeake Bay Bridge-Tunnel south of Thimble Shoal Channel. Each span has a clearance of 21 feet. **Lynnhaven Inlet**. In 2000, the controlling depth in the entrance channel was 6½ feet. The inlet is marked by lights.

**Lynnhaven Bay** has a turning basin south of the highway bridge over the inlet. The bay has depths of 1 to 10 ft.

**Caution.**—The Chesapeake Bay Bridge-Tunnel complex has on several occasions suffered damage from vessels. In every case, adverse weather prevailed with accompanying strong winds from the northwest quadrant generally related to a frontal system. Weather deterioration in the lower bay is quite often sudden and violent and constitutes an extreme hazard to vessels operating or anchoring in this area. The proximity of the bridge-tunnel complex to main shipping channels and anchorages adds to the danger. Currents in excess of 3.0 knots can be expected in the area.

**Traffic Separation Scheme (Chesapeake Bay Entrance).**—The scheme provides for inbound-outbound traffic lanes to enter or depart Chesapeake Bay from the northeastward and from the southeast-ward. (See chart 12221.)

A precautionary area with a radius of 2 miles is centered on Chesapeake Bay Entrance Lighted Whistle Buoy CH (36°56'08"N., 75°57'27"W.). A racon is at the buoy.

The northeasterly inbound-outbound traffic lanes are separated by a line of four fairway buoys on bearing 250°-070°. The outermost buoy in the line is 6.4 miles 313° from Chesapeake Light and the innermost buoy is 4.5 miles 074° from Cape Henry Light.

The southeasterly approach is marked by Chesapeake Bay Southern Approach Lighted Whistle Buoy CB (36°49'00"N., 75°45'36"W.). A racon is on the buoy. The inbound/outbound traffic lanes are separated by a **Deep-Water Route** marked by lighted buoys on bearings 302°-122° and 317°-137°. The Deep-Water Route is intended for deep draft vessels and naval aircraft carriers entering or departing Chesapeake Bay. A vessel using the Deep-Water Route is advised to announce its intentions on VHF-FM channel 16 as it approaches Lighted Whistle Buoy CB on the south end, and Lighted Whistle Buoy CH on the north end of the route. All other vessels approaching the Chesapeake Bay Traffic Separation Scheme should use the appropriate inbound/outbound lanes of the northeasterly or southeasterly approaches.

The Coast Guard advises that upon entering the traffic lanes, all inbound vessels are encouraged to make a security broadcast on VHF-FM channel 13, announcing the vessel's name, location, and intentions.

**Currents.**—The current velocity is 1.0 knot on the flood and 1.5 knots on the ebb in Chesapeake Bay Entrance. (See the Tidal Current Tables for daily predictions.)

**Naval** and **general anchorages** are south of Thimble Shoal Channel. (See **110.1 and 110.168**, chapter 2, for limits and regulations.)

Thimble Shoal Channel is a **Regulated Navigation Area** and draft limitations apply. A vessel drawing less than 25 feet may not enter the channel, unless the vessel is crossing the channel. (See **165.501**, chapter 2, for limits and regulations.)

# U.S. Coast Guard Rescue Coordination Center 24 hour Regional Contact for Emergencies

**RCC Norfolk** 

Commander

5th CG District (575) 398-6231 Norfolk, VA

7

HEIGHTS

Heights in feet above Mean High Water

Mercator Projection Scale 1:40,000 at Lat. 37° 00'

North American Datum of 1983 (World Geodetic System 1984)

SOUNDINGS IN FEET AT MEAN LOWER LOW WATER

### THE NARROWS

A depth of 6 feet for a width of 90 feet was available in the improved channel through The Narrows.

### CAUTION

Limitations on the use of radio signals as aids to marine navigation can be found in the

U.S. Coast Guard Light Lists and National Geospatial-Intelligence Agency Publication 117. Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.
Station positions are shown thus:

(Accurate location) o(Approximate location)

### LOCAL MAGNETIC DISTURBANCE

Differences of as much as 6° from the normal s offshore from Cape Henry to Currituck Beach

### WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on loating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details

### CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

### NOAA WEATHER RADIO BROADCASTS

The NOAA Weather Radio station listed below provides continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.

Norfolk, VA

KHB-37

162,550 MHz

### CAUTION

Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

### RACING BUOYS

Racing buoys within the limits of this chart are not shown hereon. Information may be obtained from the U.S. Coast Guard District Offices as racing and other private buoys are not all listed in the U.S. Coast Guard Light List.

### RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

SUBMARINE PIPELINES AND CABLES

Charted submarine pipelines and submarine cables and submarine pipeline and cable areas

Pipeline Area

Additional uncharted submarine pipelines and submarine cables may exist within the area of his chart. Not all submarine pipelines and sub marine cables are required to be buried, an those that were originally buried may have become exposed. Mariners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when

anchoring, dragging, or trawling.
Covered wells may be marked by lighted or unlighted buoys.

### Table of Selected Chart Notes

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83) which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.529 northward and 1.221" eastward to agree with this chart.

### POLITION REPORTS

Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

### LYNNHAVEN INLET TO BROAD BAY

Lynnhaven Inlet is subject to continual change. The controlling depth in the improved channel from 36°54'15.2" N 76°05'16.2' W to Broad Bay is 6½ feet for a width of 90 feet.

### ANCHORAGE AREAS

110.168 (see note A)

nits and designations of anchorage areas are shown in magenta e chart 12253 for additional areas not shown on this chart.

(A)(B)(C)(D) NAVAL ANCHORAGE

E COMMERCIAL EXPLOSIVES ANCHORAGE

(E-1) EXPLOSIVES HANDLING BERTH

 $\left(f{G}
ight)$  NAVAL EXPLOSIVES ANCHORAGE

ALL OTHER ANCHORAGES ARE FOR GENERAL USE ALL OTHER BERTHS ARE FOR GENERAL USE

(G-1)(G-2)(G-3)(G-4) explosives handling berth

### CAUTION

### FISH TRAP AREAS AND STRUCTURES

Mariners are warned that numerous uncharted duck blinds and fishing structures, some submerged, may exist in the fish trap areas. Such structures are not charted unless known to be permanent.

Regulations to assure clear passage to and through dredged and natural channels, and to established landings, are prescribed by the Corps of Engineers in the Code of Federal Regulations. Definite limits of fish trap areas have been established in some

areas, and those limits are shown thus: Where definite limits have not been prescribed, the location of fishing structures is restricted only by the regulations.

### **AUTHORITIES**

Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, Geological Survey, U.S. Coast Guard, and National Geospatial-Intelligence Agency

### SOURCE DIAGRAM

The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, <u>United States Coast Pilot.</u>

COLREGS: International Regulations for Preventing Collisions at Sea, 1972. Demarcation lines are shown thus:

PLAC	Height referred to datum of soundings (MLLW)				
NAME	(LAT/LONG)	Mean Higher High Water	Mean High Water	Mean Low Water	
		feet	feet	feet	
Fishermans Island	(37°06'N/75°59'W)	3.4	3.2	0.1	
Messick Point	(37°07'N/76°19'W)	2.6	2.5	0.2	
Old Point Comfort	(37°00'N/76°19'W)	2.8	2.6	0.1	
Hampton Roads	(36°57'N/76°20'W)	2.8	2.5	0.1	
Craney Island	(36°54'N/76°20'W)	2.9	2.7	0.1	
Lynnhaven Inlet	(36°54'N/76°05'W)	2.6	2.4	0.1	
Cape Henry	(36°56'N/76°00'W)	3.5	3.2	0.1	
	olumns indicate unavailable datur	and the second	-1-1' D1 1'-	and the state of t	

HAMPTON, PHOEBUS AND WILLOUGHBY CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JUL 2011											
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MILLW) PROJECT DIMENSIONS											
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)				
HAMPTON RIVER ENTRANCE CHANNEL	12.0	12.0	12.0	6,7-11	200	1.1	12				
HAMPTON REACH	10.5	11.7	11.3	6,7-11	150	1.2	12				
SUNSET CREEK	N/A	A7.4	N/A	6,7-11	100-80	0.5	12				
PHOEBUS CHANNEL	12.5	12.1	11.7	6-03	150	0.7	12				
WILLOUGHBY CHANNEL	2.4	2.5	9.8	6-10	B300	1.4	10				
A. 80% OF PROJECT WIDTH (40%) ON EITHER SIDE OF CENTERLINE. B. CHANNEL WIDTH MAINTAINED AT 200 FEET SOUTH OF 36'56'43.0'N, 76'18'38.5'W.											

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSPOLIENT TO THE ABOVE INFORMATION



THE NATION'S CHARTMAKER SINCE 1807

### HORIZONTAL DATUM

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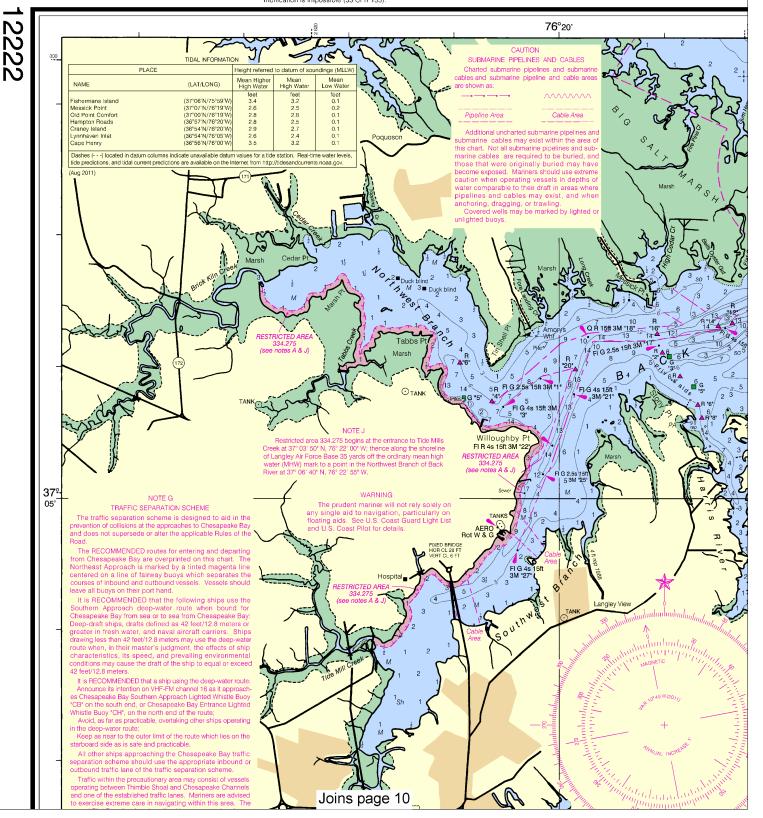
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### PRINT-ON-DEMAND CHARTS

NOAA and its partner, OceanGrafix, offer this chart updated weekly by NOAA for N and critical corrections. Charts are printed when ordered using Print-on-Demand Editions are available 2-8 weeks before their release as traditional NOAA charts. As about Print-on-Demand charts or contact NOAA at http://ocsdata.ncd.noaa.gov/idr OceanGrafix at 1-877-56CHART or http://www.oceangrafix.com.

## SOUNDINGS IN FEET





Note: Chart grid lines are aligned with true north.

Printed at reduced scale. SCALE 1:40,000 | See Note on page 5.

Nautical Miles

Yards

1000 0 1000 2000 3000 4000 5000

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### NOTE X

NOTE X

Within the 12-nautical mile Territorial Sea, established by Presidential Proclamation, some Federal laws apply. The Three Nautical Mile Line, previously identified as the outer limit of the territorial sea, is retained as it continues to depict the jurisdictional limit of the other laws. The 9-nautical mile Natural Resource Boundary off the Gulf coast of Florida, Texas, and Puerto Rico, and the Three Nautical Mile Line elsewhere remain in most cases the inner limit of Federal fisheries jurisdiction and the outer limit of the jurisdiction of the states. The 24-nautical mile Contiguous Zone and the 200-nautical mile Exclusive Economic Zone were established by Presidential Proclamation. Unless fixed by treaty or the U.S. Supreme Court, these maritime limits are subject to modification.

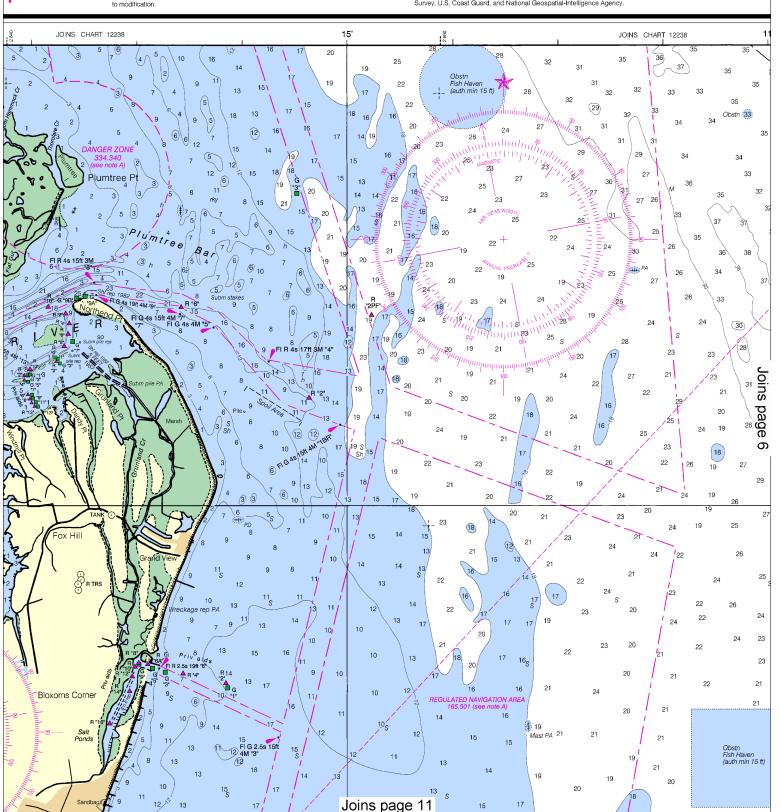
Additional information can be obtained at nauticalcharts.noaa.gov

For Symbols and Abbreviations see Chart No. 1

COLREGS: International Regulations for Preventing Collisions at Sea, 1972 Demarcation lines are shown thus: ----

### **AUTHORITIES**

Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, Geological Survey, U.S. Coast Guard, and National Geospatial-Intelligence Agency.





NOTE X

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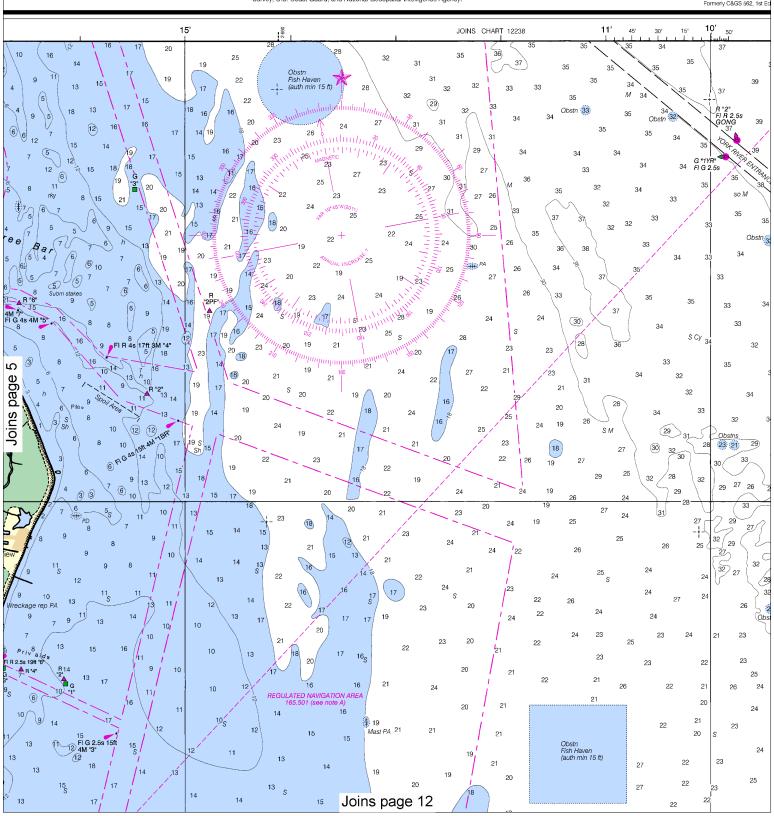
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Note: Chart grid lines are aligned with true north.



S - EAST COAST

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# EAKE BAY

**NORFOLK HARBOR** 

Mercator Projection Scale 1:40,000 at Lat. 37° 00°

North American Datum of 1983 (World Geodetic System 1984)

SOUNDINGS IN FEET AT MEAN LOWER LOW WATER

HEIGHTS

Heights in feet above Mean High Water

SUPPLEMENTAL INFORMATION Consult U.S. Coast Pilot 3 for important supplemental information.

CAUTION

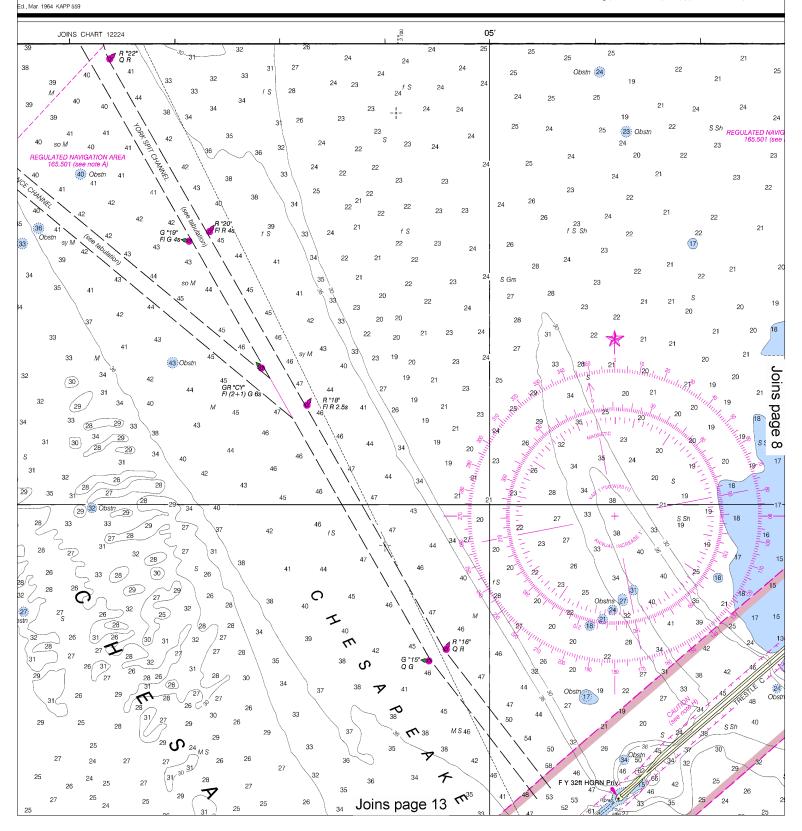
Improved channels shown by broken lines are subject to shoaling, particularly at the edges

CAUTION

Limitations on the use of radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National Geospatial-Intelligence Agency Publication 117. Radio direction-finder bearings to commercial

broadcasting stations are subject to error and should be used with caution.
Station positions are shown thus:

⊙(Accurate location) o(Approximate location)



Mercator Projection Scale 1:40,000 at Lat. 37° 00'

North American Datum of 1983 (World Geodetic System 1984)

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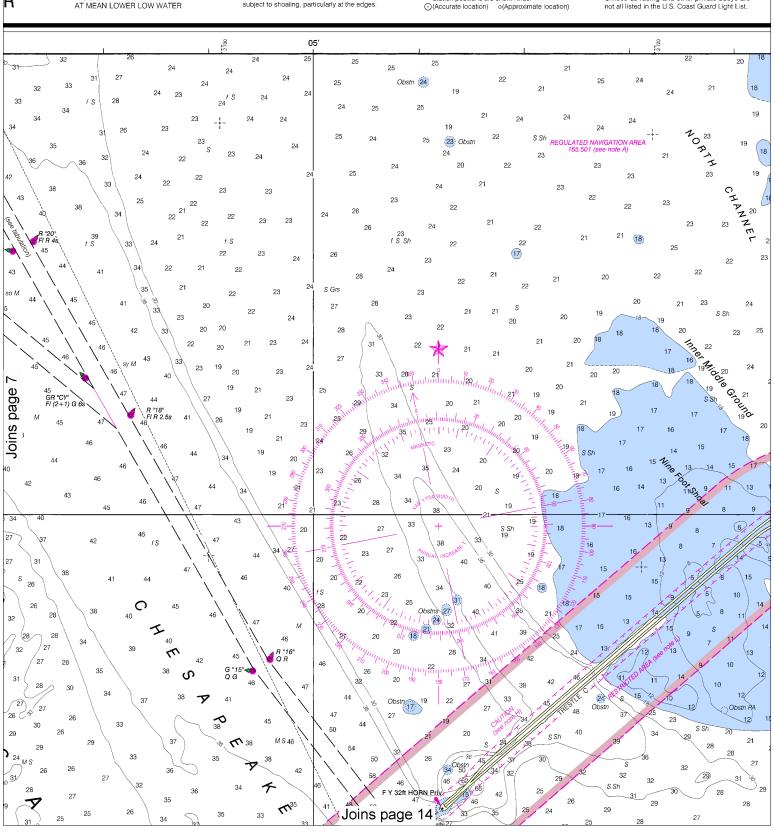
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Station positions are shown thus:

### AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

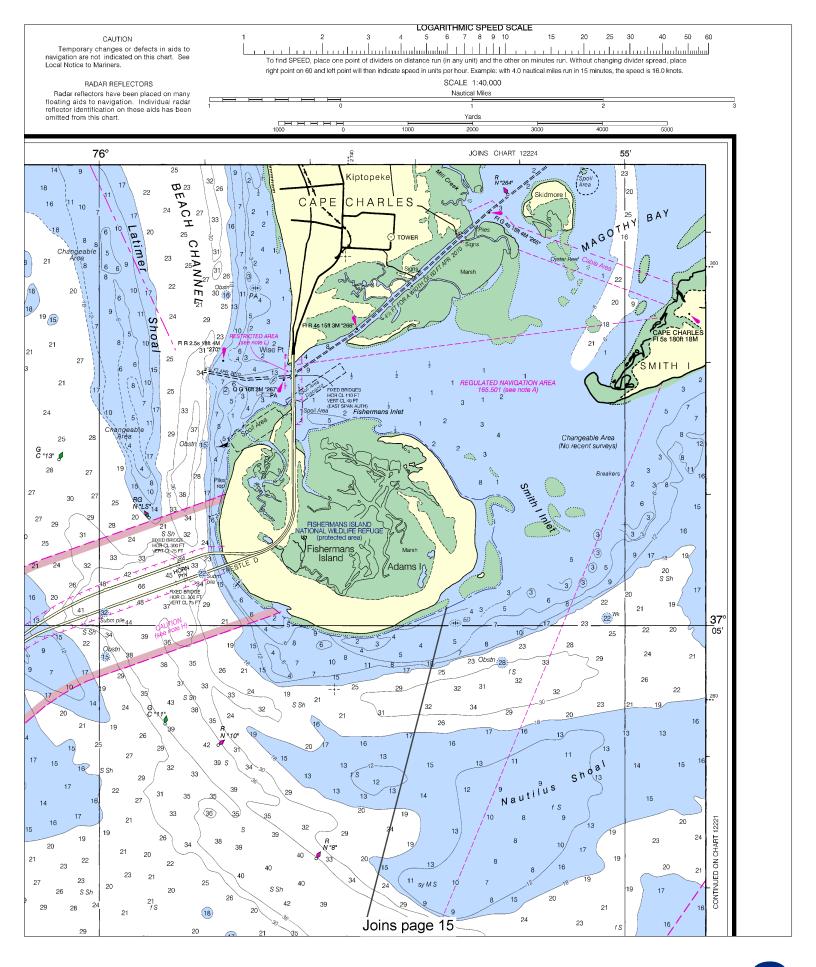
### RACING BUOYS

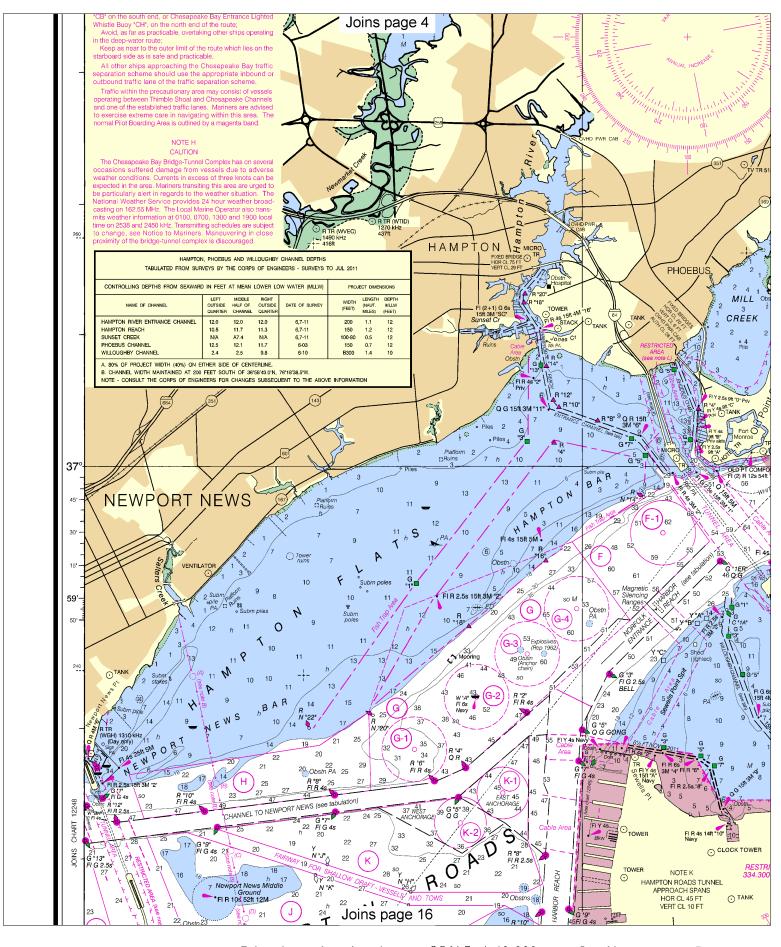
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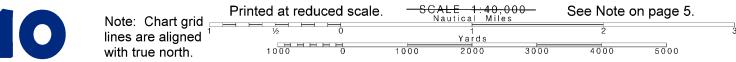


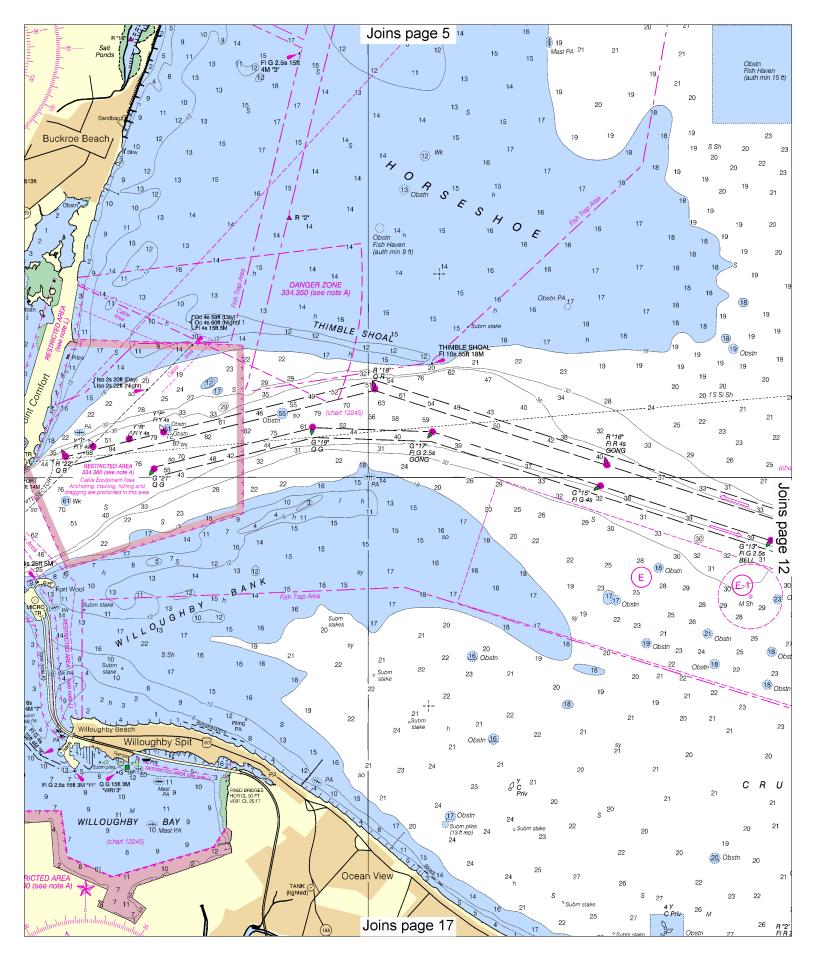


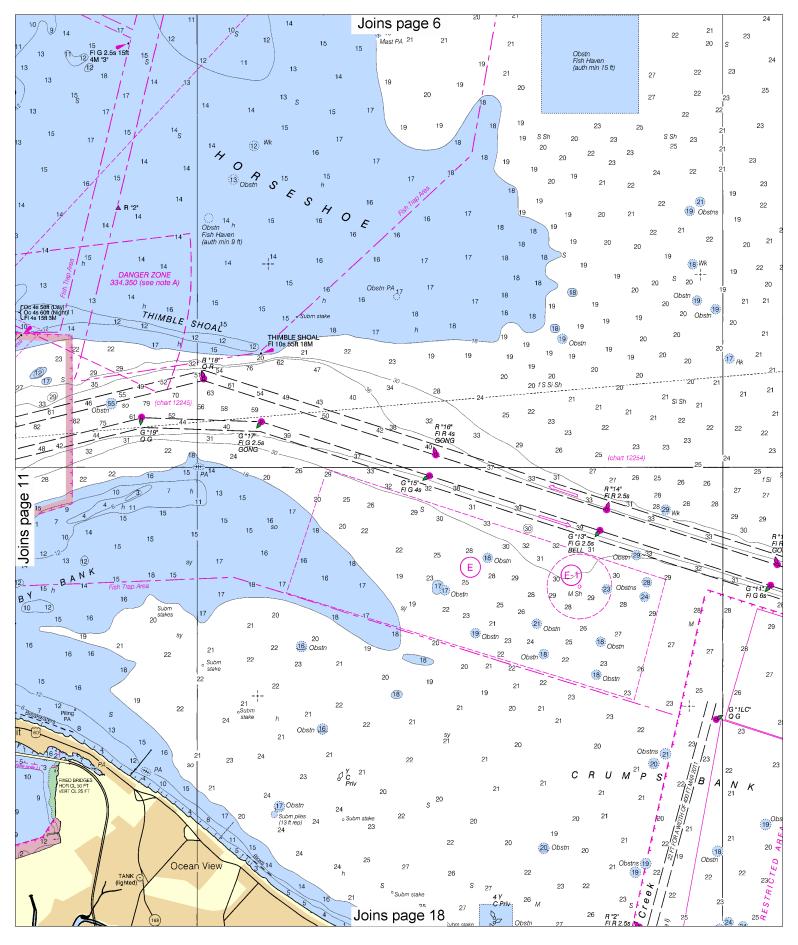
:40,000 Miles See Note on page 5. Printed at reduced scale. Note: Chart grid lines are aligned Nautical Yards 1000 0 1000 with true north. 2000 3000 4000 5000











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Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

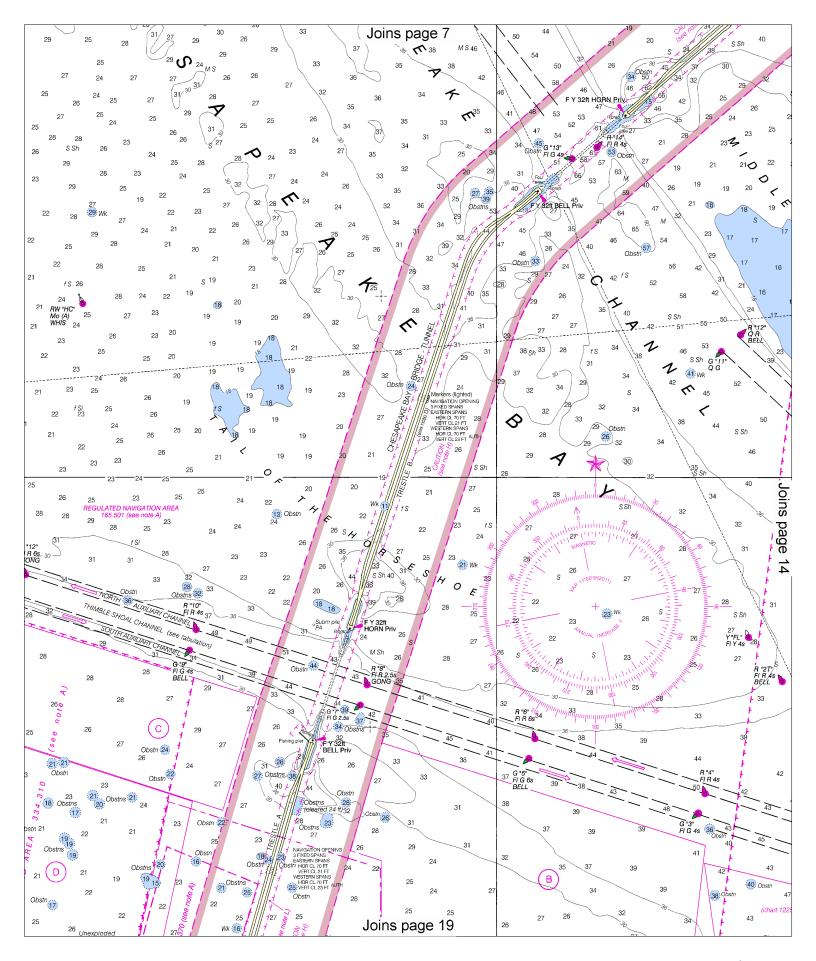
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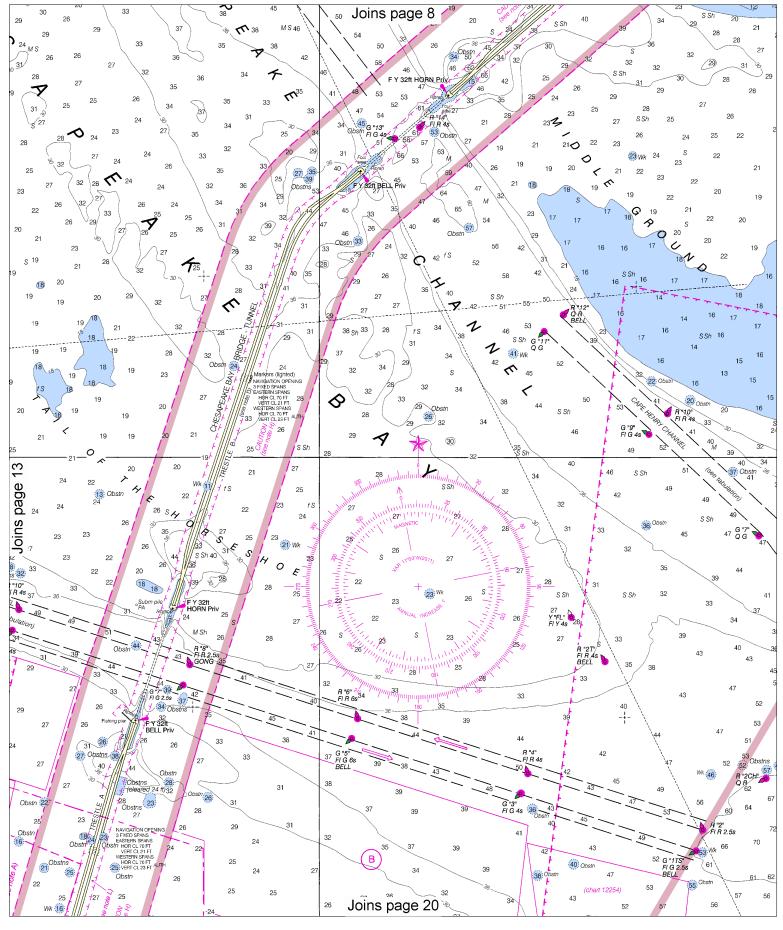
Yards

See Note on page 5.

Yards

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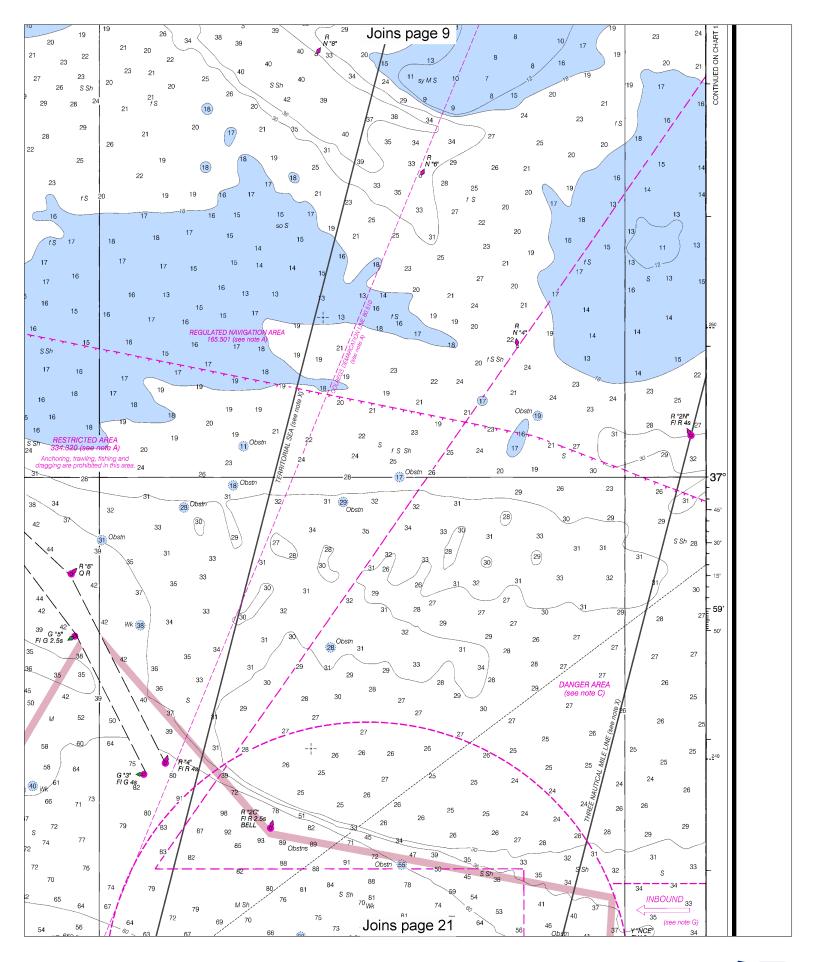


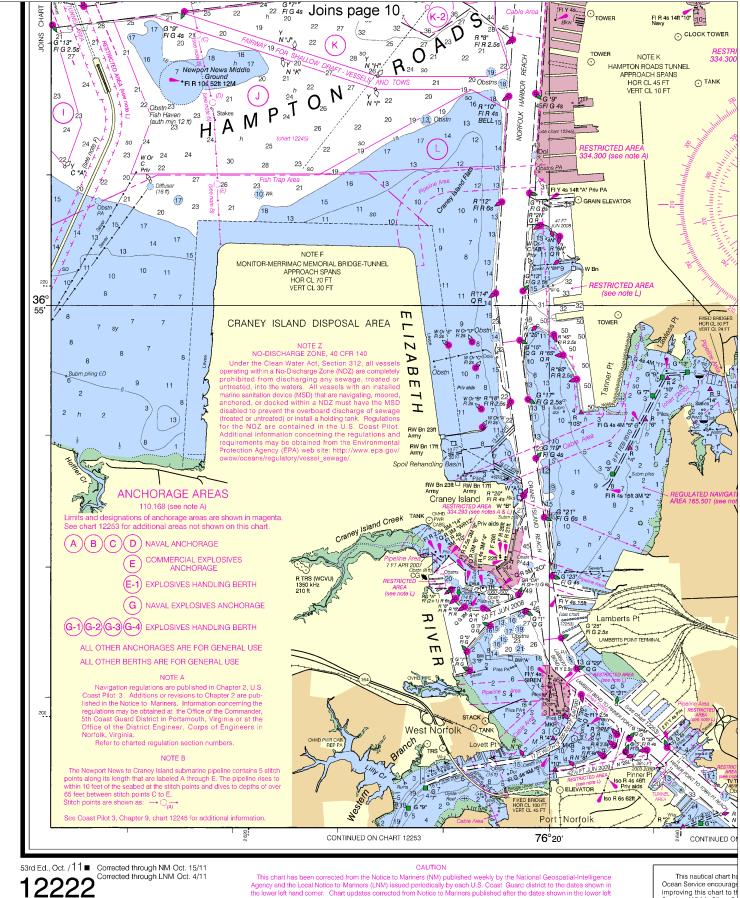


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Note: Chart grid lines are aligned with true north.



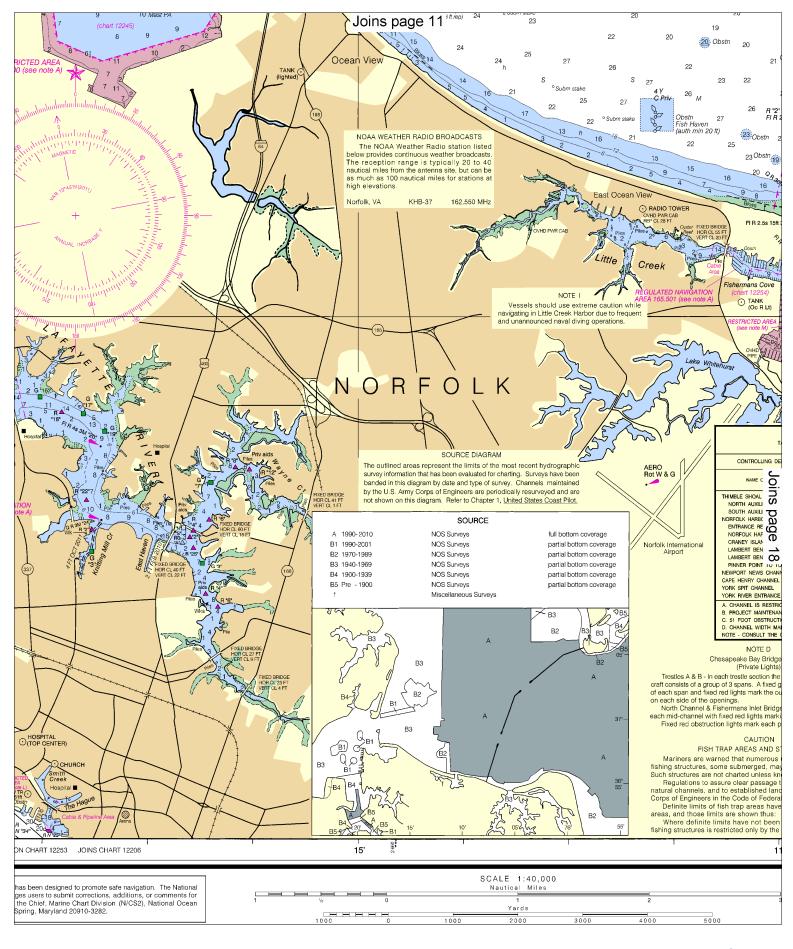


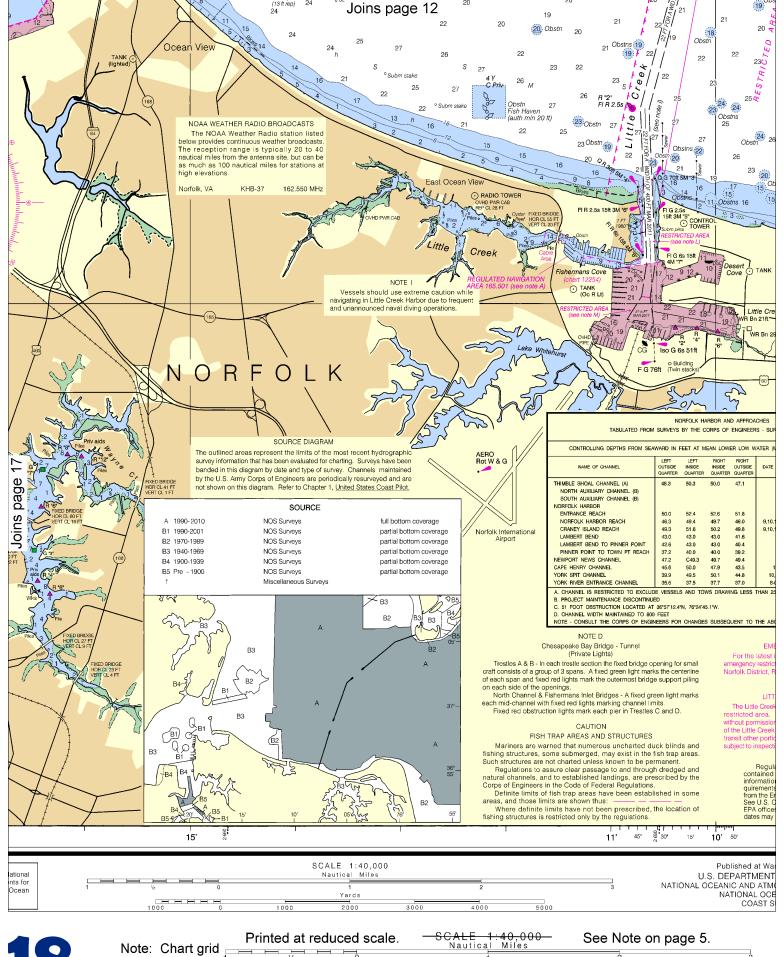


This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNN) issued periodically by each U.S. Coast: Guard district to the dates shown in the lower left hand corner. Chart updates corrected from Notice to Mariners published after the dates shown in the lower left hand corner are available at nauticalcharts.noaa.gov.

Ocean Service encourage improving this chart to the Service, NOAA, Silver Sp

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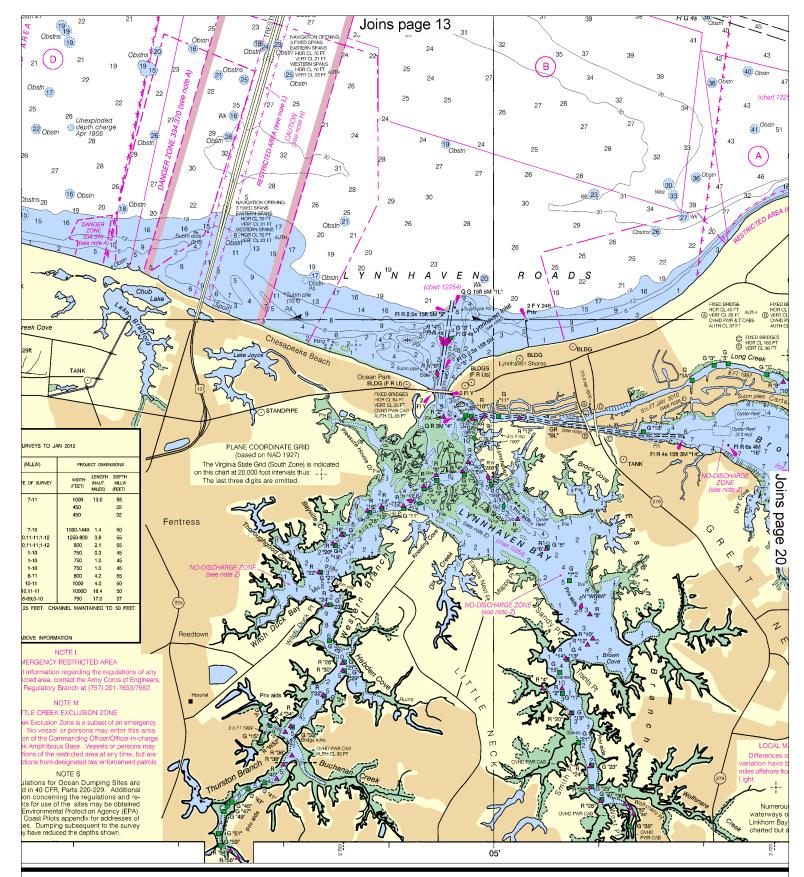
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See Note on page 5.

Nautical Miles

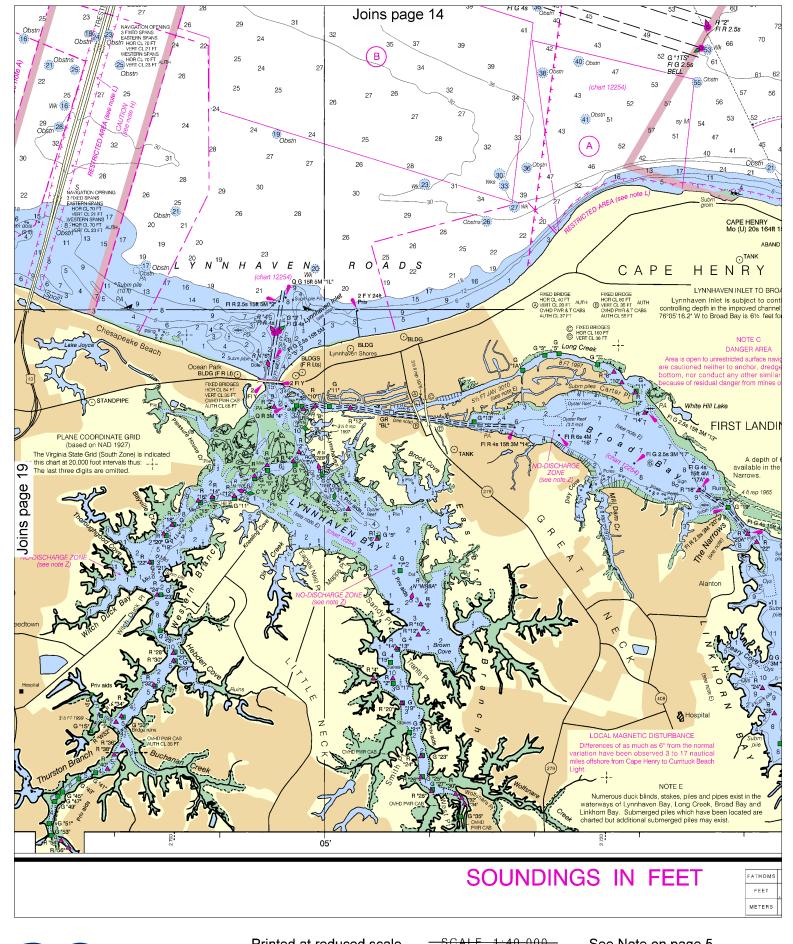
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SOUNDINGS



Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

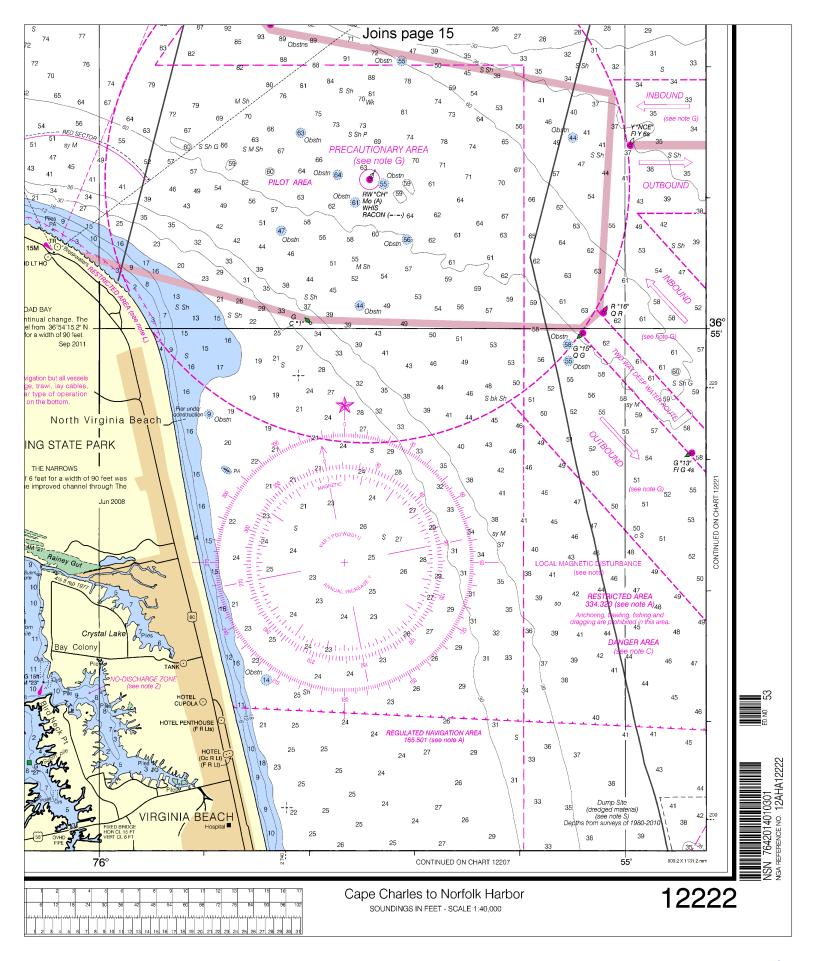
SCALE 1:40,000
Nautical Miles

See Note on page 5.

Yards

Yards

1000
1000
2000
3000
4000
5000





### VHF Marine Radio channels for use on the waterways:

**Channel 6** – Inter-ship safety communications.

Channel 9 – Communications between boats and ship-to-coast.

Channel 13 – Navigation purposes at bridges, locks, and harbors.

Channel 16 – Emergency, distress and safety calls to Coast Guard and others, and to initiate calls to other

vessels. Contact the other vessel, agree to another channel, and then switch.

Channel 22A – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here. Channels 68, 69, 71, 72 and 78A – Recreational boat channels.

**Getting and Giving Help** — Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.

### **Distress Call Procedures**

- Make sure radio is on.
- Select Channel 16.
- Press/Hold the transmit button.
- Clearly say: "MAYDAY, MAYDAY, MAYDAY."
- Also give: Vessel Name and/or Description; Position and/or Location; Nature of

Emergency; Number of People on Board.

- · Release transmit button.
- Wait for 10 seconds If no response Repeat MAYDAY call.

HAVE ALL PERSONS PUT ON LIFE JACKETS!



NOAA Weather Radio All Hazards (NWR) is a nationwide network of radio stations broadcasting continuous weather information directly from the nearest National Weather Service office. NWR broadcasts official Weather Service warnings, watches, forecasts and other hazard information 24 hours a day, 7 days a week.

http://www.nws.noaa.gov/nwr/

### **Quick References**

Nautical chart related products and information — http://www.nauticalcharts.noaa.gov

Online chart viewer — <a href="http://www.nauticalcharts.noaa.gov/mcd/NOAAChartViewer.html">http://www.nauticalcharts.noaa.gov/mcd/NOAAChartViewer.html</a>

Report a chart discrepancy — http://ocsdata.ncd.noaa.gov/idrs/discrepancy.aspx

Chart and chart related inquiries and comments — http://ocsdata.ncd.noaa.gov/idrs/inquiry.aspx?frompage=ContactUs

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Tides and Currents — http://tidesandcurrents.noaa.gov

Marine Forecasts — http://www.nws.noaa.gov/om/marine/home.htm

National Data Buoy Center — http://www.ndbc.noaa.gov/

NowCoast web portal for coastal conditions — http://www.nowcoast.noaa.gov/

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